

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.

WHAT IS CLAIMED IS:

1. A network system that forms a part of a network, comprising:

a source computer, having a link to the network;

a destination computer, having a link to the network;

10 a satellite interface between the source computer and the destination computer, wherein information passes from the source computer to the destination computer;

means in the destination computer for requesting information from the source computer over the network;

15 means for receiving an information packet sent from the source computer in response to the request and for sending the information packet to the destination computer over the satellite interface; and

20 means for sending an ACK message to the source computer in response to receipt of the information packet, wherein the ACK message appears to the source computer to have come from the destination computer.

25 2. The network of claim 1, further comprising means for receiving a packet containing an ACK message from the destination computer, for indicating receipt of the information packet by the destination computer, and for discarding the ACK message received from the destination computer when no other data is present in the received packet.

3. The network of claim 1, further comprising means for receiving a packet containing an ACK message from the destination computer, for indicating receipt of the information packet by the

5 destination computer, and for editing the ACK message and passing
the received packet to the source computer.

10 4. The network of claim 3, wherein the editing means in-
cludes means for editing an ACK number of the received packet and
for adjusting a checksum of the received packet in accordance with
the edited value.

15 5. The network of claim 1, wherein the information packet is
formatted in accordance with TCP/IP protocol.

20 6. The network of claim 1, wherein the ACK message is for-
matted in accordance with TCP/IP protocol.

25 7. The network of claim 1, wherein the satellite interface
is a one-way interface.

30

35

40

LAW OFFICES
NEGAN, HENDERSON
ARABOW, GARRETT
& DUNNER
300 I STREET N.W.
WASHINGTON, DC 20005
1-202-408-4000

5 8. A gateway in a network system that forms a part of a TCP/
IP network, wherein the network includes a source computer having
a link to the TCP/IP network and a link to a high speed satellite
interface, and a destination computer having a link to the TCP/IP
network and a link to the high speed satellite interface, the
10 gateway comprising:

means for receiving an information packet sent from the
source computer and for sending the information packet to the des-
tination computer over the satellite interface; and

15 means for sending an ACK message to the source computer
in response to receipt of the information packet, wherein the ACK
message appears to the source computer to have come from the des-
tination computer.

20 9. The gateway of claim 8, further comprising means for re-
ceiving a packet containing an ACK message from the destination
computer, for indicating receipt of the information packet by the
destination computer, and for discarding the ACK message from the
destination computer when no other data is present in the received
packet.

25 10. The gateway of claim 8, further comprising means for re-
ceiving a packet containing an ACK message from the destination
computer, for indicating receipt of the information packet by the
destination computer, and for editing the ACK message and passing
the received packet to the source computer.

11. The gateway of claim 10, wherein the editing means in-
cludes means for editing an ACK number of the received packet and

LAW OFFICES
INECAN, HENDERSON,
ARABOW, GARRETT
& DUNNER
300 I STREET, N.W.
SHINGTON, DC 20005
1-202-408-4000

5 for adjusting a checksum of the received packet in accordance with
 the edited value.

 12. The gateway of claim 8, wherein the information packet
 is formatted in accordance with TCP/IP protocol.

10 13. The gateway of claim 8, wherein the ACK message is for-
 matted in accordance with TCP/IP protocol.

15

20

25

30

35

40

45

LAW OFFICES
NEGAN, HENDERSON
ARABOW, GARRETT
& DUNNER
300 I STREET, N.W.
SHINGTON, DC 20005
I-202-408-4000

5 14. A method for sending information over a high speed
satellite interface in a network system that forms a part of a
TCP/IP network, wherein the network includes gateway and a source
computer, having a link to the TCP/IP network, a destination
computer, having a link to the TCP/IP network, and a satellite
10 interface between the source computer, the gateway, and the
destination computer, wherein information passes from the source
computer to the destination computer, the method comprising the
steps, performed by a processor of the gateway, of:

15 receiving an information packet sent from the source
computer;

 sending the information packet to the destination com-
puter over the satellite interface; and

20 sending an ACK message to the source computer in re-
sponse to receipt of the information packet, wherein the ACK mes-
sage appears to the source computer to have come from the destina-
tion computer.

25 15. The method of claim 14, further comprising the steps of
receiving a packet containing an ACK message from the destination
computer, wherein the ACK message indicates receipt of the infor-
mation packet by the destination computer and discarding the ACK
message from the destination computer when no other data is
present in the received packet.

 16. The method of claim 14, further comprising the steps of
receiving a packet containing an ACK message from the destination
computer, wherein the ACK message indicates receipt of the
information packet by the destination computer, and editing the

5 ACK message and passing the received packet to the source computer.

10 17. The method of claim 16, wherein the editing step includes the substeps of editing an ACK number of the received packet and adjusting a checksum of the received packet in accordance with the edited value.

15 18. The method of claim 14, wherein the information packet is formatted in accordance with TCP/IP protocol.

20 19. The method of claim 14, wherein the ACK message is formatted in accordance with TCP/IP protocol.

25

30

35

40

45
LAW OFFICES
INEGAN, HENDERSON
ARABOW, GARRETT
& DUNNER
300 I STREET, N.W.
SHINGTON, DC 20005
I-202-408-4000